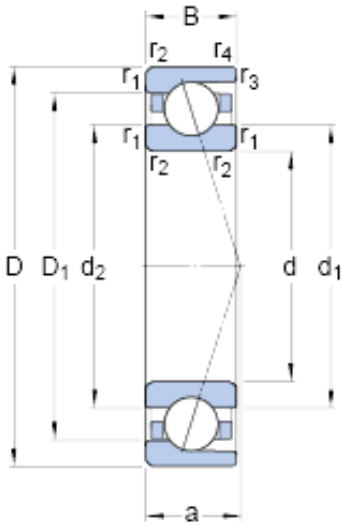




NTN Bearing Rolamentos do Brasil Ltda.



140 mm x 175 mm x 18 mm skf 71828
ACD/HCP4 Super-precision Angular contact ball bearings

Bearing No. 71828 ACD/HCP4

71828 ACD/HCP4 Bearing 2D drawings and 3D CAD models

Size	175x140x18 mm
Bore Diameter	175 mm
Outer Diameter	140 mm
Width	18 mm
d	140 mm
D	175 mm
B	18 mm
d ₁	151.3 mm
d ₂	151.3 mm
D ₁	163.71 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	45.8 mm
d _a - min.	146 mm
d _b - min.	146 mm
D _a - max.	169 mm
D _b - max.	171.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	153.2 mm
Basic dynamic load rating - C	42.3 kN
Basic static load rating - C ₀	58.5 kN
Fatigue load limit - P _u	2 kN



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Limiting speed for grease lubrication	7000 r/min
Limiting speed for oil lubrication	11000 mm/min
Ball - D_w	10.319 mm
Ball - z	35
G_{ref}	9.9 cm ³
Calculation factor - e	0.68
Calculation factor - Y_2	0.87
Calculation factor - Y_0	0.38
Calculation factor - X_2	0.41
Calculation factor - Y_1	0.92
Calculation factor - Y_2	1.41
Calculation factor - Y_0	0.76
Calculation factor - X_2	0.67
Preload class A - G_A	380 N
Preload class B - G_B	1140 N
Preload class C - G_C	2280 N
Calculation factor - f	1.43
Calculation factor - f_1	0.97
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.09
Calculation factor - f_{2C}	1.17
Calculation factor - f_{HC}	1.02
Preload class A	340 N/micron
Preload class B	543 N/micron
Preload class C	749 N/micron
d_1	151.3 mm
d_2	151.3 mm
D_1	163.71 mm



NTN Bearing Rolamentos do Brasil Ltda.

$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	146 mm
d_b min.	146 mm
D_a max.	169 mm
D_b max.	171.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	153.2 mm
Basic dynamic load rating C	42.3 kN
Basic static load rating C_0	58.5 kN
Fatigue load limit P_u	2 kN
Attainable speed for grease lubrication	7000 r/min
Attainable speed for oil-air lubrication	11000 r/min
Ball diameter D_w	10.319 mm
Number of balls z	35
Reference grease quantity G_{ref}	9.9 cm ³
Preload class A G_A	380 N
Static axial stiffness, preload class A	340 N/ μ m
Preload class B G_B	1140 N
Static axial stiffness, preload class B	543 N/ μ m
Preload class C G_C	2280 N
Static axial stiffness, preload class C	749 N/ μ m
Calculation factor f	1.43
Calculation factor f_1	0.97
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.09
Calculation factor f_{2C}	1.17



NTN Bearing Rolamentos do Brasil Ltda.

Calculation factor f_{HC}	1.02
Calculation factor e	0.68
Calculation factor (single, tandem) Y_2	0.87
Calculation factor (single, tandem) Y_0	0.38
Calculation factor (single, tandem) X_2	0.41
Calculation factor (back-to-back, face-to-face) Y_1	0.92
Calculation factor (back-to-back, face-to-face) Y_2	1.41
Calculation factor (back-to-back, face-to-face) Y_0	0.76
Calculation factor (back-to-back, face-to-face) X_2	0.67
Mass bearing	0.7 kg